

MATERIAL SAFETY DATA SHEET

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I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: HANDI-FOAM® TRIPLE EXPANDING FOAM SEALANT

HMIS Ratings:

Health: Slight(1)
 Flammability: Slight(1)
 Instability/Reactivity: Slight(1)

NFPA Ratings:

Health: Moderate(2)
 Flammability: Slight(1)
 Instability/Reactivity: Slight(1)

Other: NONE OF THE COMPONENTS IN THIS PRODUCT ARE LISTED BY IARC, NTP, OSHA OR ACGIH AS A CARCINOGEN.

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
FLUOROCARBON (NON-FLAMMABLE COMPRESSED GAS, HCFC)	NOT AVAILABLE	10 –30	1,000 PPM	1,000 PPM		Not Available	Not Available
Notes							
4,4' – DIPHENYLMETHANE DIISOCYANATE (MDI)	101–68–8	7 – 13	.005 PPM .051 MG/M³	CEILING: .020 PPM; .200 MG/M³		Not Available	Not Available
Notes							
HIGHER OLIGOMERS OF MDI (POLYMERIC MDI)	9016–87–9	7 – 13	NONE ESTABLISHED	NONE ESTABLISHED		Not Available	Not Available
Notes							

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: MAY BE IRRITATING TO THE EYES. FOAM CONTACT CAN CAUSE PHYSICAL DAMAGE DUE TO ADHESIVE CHARACTER.

Skin: MAY CAUSE LOCALIZED IRRITATION, REDDENING OR SWELLING. PROLONGED OR REPEATED EXPOSURE MAY LEAD TO SENSITIZATION AND/OR DERMATITIS.

Ingestion: MAY CAUSE IRRITATION OF MUCOUS MEMBRANES IN THE MOUTH AND DIGESTIVE TRACT.

Inhalation: MAY IRRITATE MUCOUS MEMBRANES WITH TIGHTNESS IN CHEST, COUGHING, OR ALLERGIC ASTHMA-LIKE SENSITIVITY. EXTENSIVE OVEREXPOSURE CAN LEAD TO RESPIRATORY SYMPTOMS LIKE BRONCHITIS AND PULMONARY EDEMA. THESE EFFECTS ARE USUALLY REVERSIBLE. OVEREXPOSURE TO FLUOROCARBON MAY CAUSE LIGHTEADEDNESS, HEADACHES OR LETHARGY. PERSONS WITH CARDIAC ARRHYTHMIA MAY BE AT INCREASED RISK IN SEVERE EXPOSURE.

Other: PHYSICAL HAZARDS: SINCE THE CONTAINERS ARE PRESSURIZED, STORAGE TEMPERATURE SHOULD NOT EXCEED 120°F (49°C) IN ORDER TO AVOID

EXCESSIVE PRESSURE BUILD-UP AND POSSIBLE CONTAINER RUPTURE. ALSO, THE FOAM HAS STRONG ADHESIVE-LIKE CHARACTERISTICS AND WILL ADHERE TO SKIN AND OTHER SURFACES. IF ACCIDENTAL FOAM CONTACT OCCURS, FOLLOW THE APPROPRIATE FIRST-AID PROCEDURE DESCRIBED IN SECTION IV OF THIS MSDS.

IV. FIRST AID MEASURES

Eyes:	FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES AND OBTAIN MEDICAL ATTENTION.
Skin:	USE A RAG TO REMOVE EXCESS FOAM FROM SKIN AND REMOVE CONTAMINATED CLOTHING. USE OF A MILD SOLVENT, SUCH AS ACETONE (NAIL POLISH REMOVER) OR MINERAL SPIRITS, MAY HELP IN REMOVING UNCURED FOAM RESIDUE FROM CLOTHING OR OTHER SURFACES (AVOID EYE CONTACT). CURED FOAM MAY BE PHYSICALLY REMOVED BY PERSISTENT WASHING WITH SOAP AND WATER. IF IRRITATION DEVELOPS, USE MILD SKIN CREAM. IF IT PERSISTS, OBTAIN MEDICAL ATTENTION.
Ingestion:	DO NOT INDUCE VOMITING. DRINK 1-2 GLASSES OF WATER OR MILK. CONSULT PHYSICIAN. DO NOT GIVE ANYTHING ORALLY TO AN UNCONSCIOUS PERSON.
Inhalation:	IF BREATHING DIFFICULTY IS EXPERIENCED, MOVE TO AREA FREE OF EXPOSURE. PROVIDE FRESH AIR. IF NECESSARY, PROVIDE OXYGEN OR ARTIFICIAL RESPIRATION BY TRAINED PERSONNEL AND OBTAIN MEDICAL ATTENTION.

V. FIRE FIGHTING MEASURES

Flash Point:	800°F (426.6°C) APPROXIMATELY
Unusual Fire or Explosion Hazards:	CONTENTS ARE NOT KNOWN TO BE SENSITIVE TO MECHANICAL IMPACT OR STATIC DISCHARGE.
Fire Fighting Procedures:	HIGH TEMPERATURES WILL RAISE THE PRESSURE IN THE CONTAINERS, WHICH MAY LEAD TO RUPTURING. EXTINGUISHING MEDIA INCLUDE: DRY CHEMICAL, CARBON DIOXIDE, HALON 1211, CHEMICAL FOAM, OR WATER SPRAY IF USED IN LARGE QUANTITIES (WATER CONTAMINATION WILL PRODUCE CARBON DIOXIDE). WEAR SELF CONTAINED BREATHING APPARATUS TO PROTECT AGAINST TOXIC DECOMPOSITION BY-PRODUCTS, INCLUDING CO, CO ₂ , NO, AND TRACES OF HCN OR HCL. CURED FOAM IS ORGANIC AND, THEREFORE, WILL BURN IN THE PRESENCE OF SUFFICIENT HEAT, OXYGEN AND IGNITION SOURCE.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup:	PROVIDE ADEQUATE VENTILATION AND WEAR RECOMMENDED PROTECTIVE CLOTHING (GLOVES, SAFETY GOGGLES, LONG SLEEVE WORK CLOTHES). UNCURED FOAM IS VERY STICKY SO CAREFULLY REMOVE THE BULK OF THE FOAM BY SCRAPING IT UP AND THEN IMMEDIATELY REMOVE RESIDUE WITH A RAG AND SOLVENT SUCH AS HANDI-FOAM CLEAN, MINERAL SPIRITS, ACETONE (NAIL POLISH REMOVER), PAINT THINNER, ETC. ONCE THE FOAM HAS CURED, IT CAN ONLY BE REMOVED PHYSICALLY BY SCRAPING, BUFFING, ETC. DISPOSE AS PLASTIC WASTE (FOAM PLASTIC) IN ACCORDANCE WITH ALL APPLICABLE GUIDELINES AND REGULATIONS. BEFORE DISPOSING OF CONTAINERS, RELIEVE CONTAINER OF ANY REMAINING FOAM AND PRESSURE. ALLOW FOAM TO FULLY CURE BEFORE DISPOSING.
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VII. HANDLING AND STORAGE

Other:	STORE IN A COOL, DRY PLACE. IDEAL STORAGE TEMPERATURE IS 60°F TO 80°F (15.5°C TO 26.6°C). STORAGE ABOVE 90°F (32.2°C) WILL SHORTEN THE SHELF LIFE. PROTECT CONTAINERS FROM PHYSICAL ABUSE. PROTECT UNUSED PRODUCT
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FROM FREEZING.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	PERSONAL PROTECTIVE EQUIPMENT SHOULD INCLUDE SAFETY EYE WEAR.
Skin:	PERSONAL PROTECTIVE EQUIPMENT SHOULD INCLUDE CHEMICAL RESISTANT GLOVES, AND LONG SLEEVE WORK CLOTHES.
Respiratory:	IF VAPOR LEVELS ARE EXPECTED TO EXCEED THESE GUIDELINES, USE NIOSH/MSHA APPROVED, POSITIVE PRESSURE, SUPPLIED AIR RESPIRATOR.
Engineering:	ADEQUATE VENTILATION SHOULD BE EMPLOYED SO THAT VAPOR LEVELS DO NOT EXCEED RECOMMENDED GUIDELINES.
Other:	READ ALL PRODUCT INSTRUCTION BEFORE USING. EXERCISE GOOD PERSONAL HYGIENE, WASH THOROUGHLY AFTER EACH USE.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	OFF-WHITE TO YELLOWISH FROTH
Boiling Point:	FLUOROCARBON COMPONENT (NON-FLAMMABLE GAS)**
Solubility in Water:	INSOLUBLE, REACTS SLOWLY W/H ₂ O DURING CURE++
Specific Gravity:	APPROXIMATELY 1.2 (H ₂ O = 1)
Vapor Pressure:	GREATER THAN 50 PSIG (345 KPA) UNDER PRESSURE***
Physical State:	VISCOUS LIQUID*
Volatile Content:	EXPLOSION DATA: CONTENTS ARE NOT KNOWN TO BE SENSITIVE TO MECHANICAL IMPACT OR STATIC DISCHARGE.
Other:	<p>*WHICH FOAMS UPON RELEASE FROM CONTAINER AS AN OFF-WHITE TO YELLOWISH FROTH.</p> <p>**BOILS AT LESS THAN 0°F (-17.7°C). OTHER COMPONENTS BOIL AT TEMPERATURES GREATER THAN 200°F(93.3°C).</p> <p>FLASH POINT: PRODUCT FLASH POINT HAS BEEN TESTED AT APPROXIMATELY 800°F (426.6°C).</p> <p>***AFTER RELEASE FROM CONTAINER, VAPOR PRESSURE IS VERY LOW (NOT DETERMINED). ++LIBERATING TRACES OF CO₂.</p>

X. STABILITY AND REACTIVITY

Stability:	STABLE UNDER NORMAL AND ANTICIPATED STORAGE AND HANDLING CONDITIONS.
Incompatible Products:	AVOID ALCOHOLS, STRONG BASES OR AMINES AND METAL COMPOUNDS (SUCH AS SMALL PARTICLE METAL CATALYSTS.)
Conditions To Avoid:	DO NOT STORE ABOVE 120°F (49°C). FOR LONGEST SHELF LIFE, AVOID STORAGE ABOVE 80°F (26.6°C).

XI. TOXICOLOGICAL INFORMATION**XII. ECOLOGICAL INFORMATION****XIII. DISPOSAL CONSIDERATIONS**

Disposal Method:	DISPOSE AS PLASTIC WASTE (FOAM PLASTIC) IN ACCORDANCE WITH ALL APPLICABLE GUIDELINES AND REGULATIONS.
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XIV. TRANSPORT INFORMATION

Other: CONTAINERS LESS THAN 1000 CU. CM. (1 LITER) I.E. 12, 24, 27 AND 33 OZ.
 GROUND: CONSUMER COMMODITY ORM-D
 AIR: AEROSOLS, NON-FLAMMABLE 2.2 UN 1950 (NON-FLAMMABLE GAS LABEL)
 WATER: AEROSOLS, NON-FLAMMABLE 2.2 UN 1950 (WITH A CAPACITY OF 1000 CU. CM. OR LESS)(NO HAZARD LABELS REQUIRED) BOXES OR CARTONS SHOULD BE MARKED (AEROSOLS UN 1950) ONLY. IMDG PAGE # 2102. NOTE:
 EMERGENCY RESPONSE GUIDE NUMBERS – CONSUMER COMMODITY #171, FOR AEROSOLS AND COMPRESSED GAS #126.

XV. REGULATORY INFORMATION

TSCA Status: (DESIGNATED SUBSTANCE LIST; DLS): ALL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY, AS WELL AS THE CANADIAN DESIGNATED SUBSTANCES LIST.

EPA Sara Title III Chemical Listings: CONTAINS DIPHENYLMETHANE DIISOCYANATE (CAS #101-68-8) AND A FLUOROCARBON (HCFC) CONTAINING CHLORODIFLUOROMETHANE (CAS #75-45-6), SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III.

California: PROP 65: BASED ON THE INFORMATION CURRENTLY AVAILABLE, THIS PRODUCT IS NOT KNOWN TO CONTAIN DETECTABLE AMOUNTS OF ANY CHEMICALS CURRENTLY LISTED UNDER PROP 65.

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.